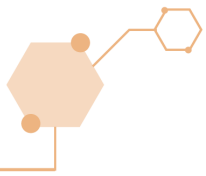


2018 China Industry Software Benchmark Data

SPI China : Ying Liu
international-info@ssmchina.org





About Me



Ying Liu

- SPI China technical expert and 2017 ISBSG Annual Conference speaker.
- Microsoft China as senior Technical Evangelist, research field as More Personal Computing and Next Generation Human-Computer Interaction.
- IBM certificated PMP lecturer
- Worked for Nortel , Alcatel-Lucent Beijing R&D center as Quality Manager.
- Guest professor of Beijing Jiaotong University (BJTU)and Beijing University of Posts and Telecommunications(BPTU).



Agenda

- About CSBSG
- 2018 China Industry Software Benchmark
 - Productivity data
 - Defect Density data
 - Man-month data
 - Workload distribution ratio



About CSBSG

- China Software Benchmarking Standards Group(CSBSG) was founded in Jan 2016.
- SPI China built benchmarking data platform,2 repositories of IT software development / maintenance data. This data originates from trusted, China IT organizations.
- China standard released at April 2017.
- CSBSG cooperation with ISBSG at 2017, had data exchanged with international database repositories.



Database Respositories

Data reliability is high with full project life cycle data

5971

@2018 China Industry Software benchmark data source from the 5971 <Industry Software Processing benchmark database>

4100

2012-2016

836

2017

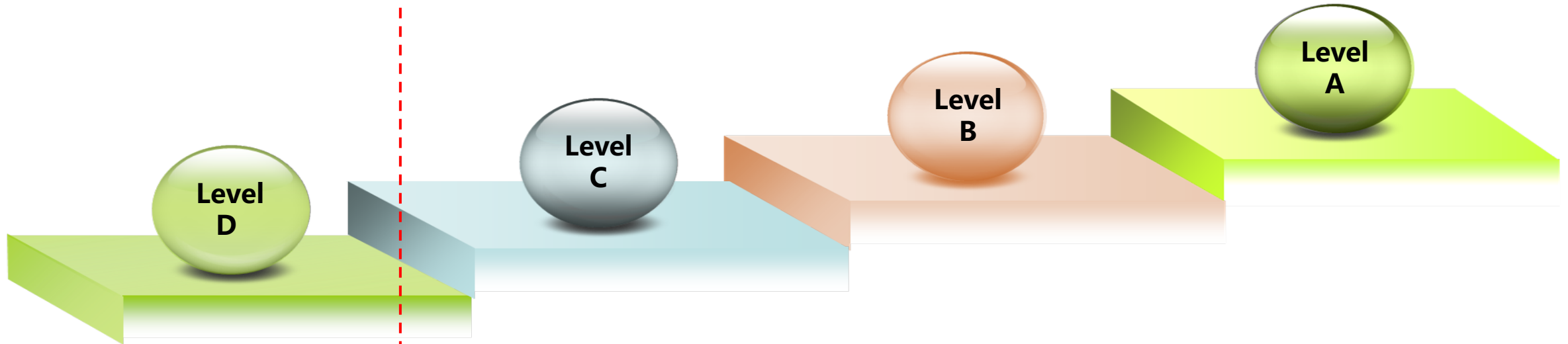
1035

2018



Data Quality

All data that receive is rigorously **checked** and **cross-checked** for quality before being added to our Repositories. Each project is then assigned a rating code (A, B, C OR D) to denote its quality rating.



Level D

Not Usually Reliable D

Refers to information for which there is more doubt than confidence

Level C

Fairly Reliable C

Refers to information for which there is some element of doubt.

Level B

Very Reliable B

Refers to information upon with some degree of confidence can be replaced

Level A

Highly And Consistently Reliable

Refers to information that can be depended upon with much confidence

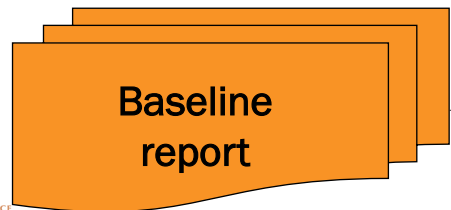
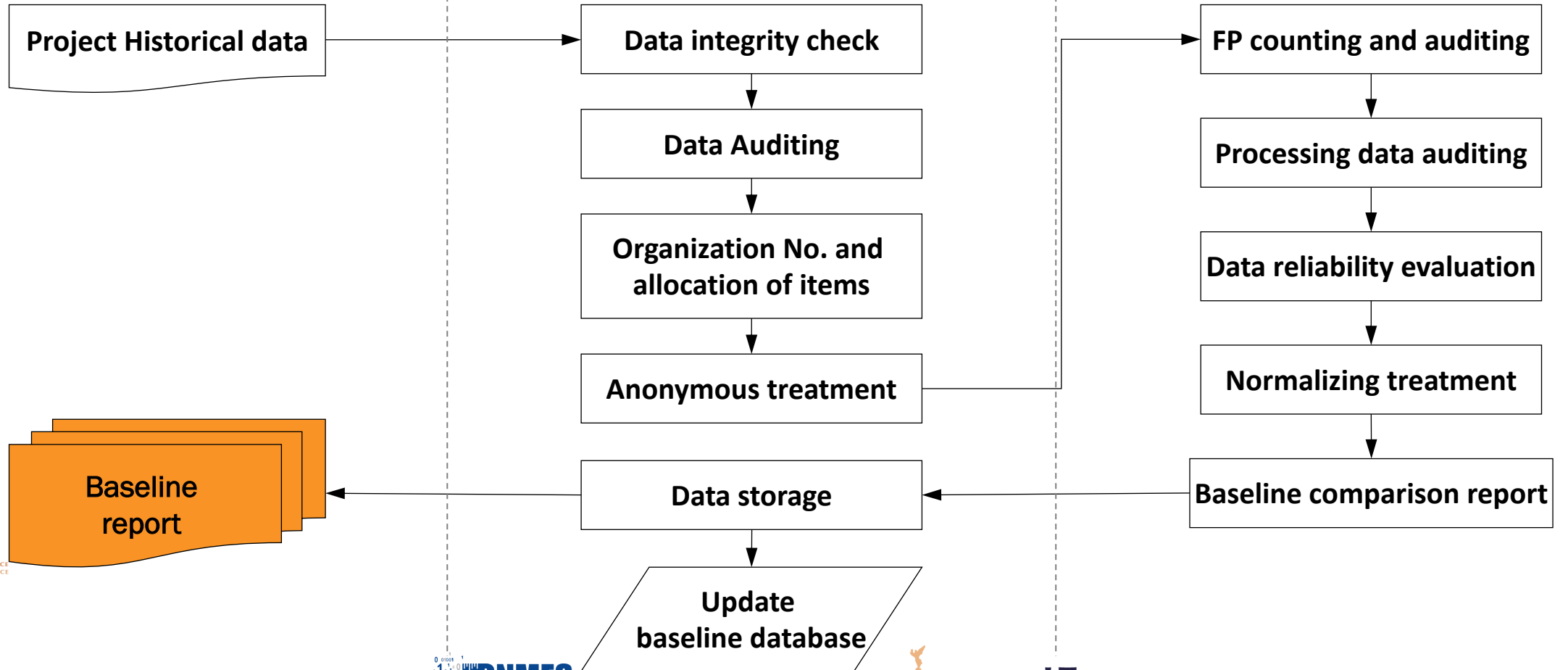
Data Processing Workflow



 **Data Author**

 **Data Administrator**

 **Audit Expert**



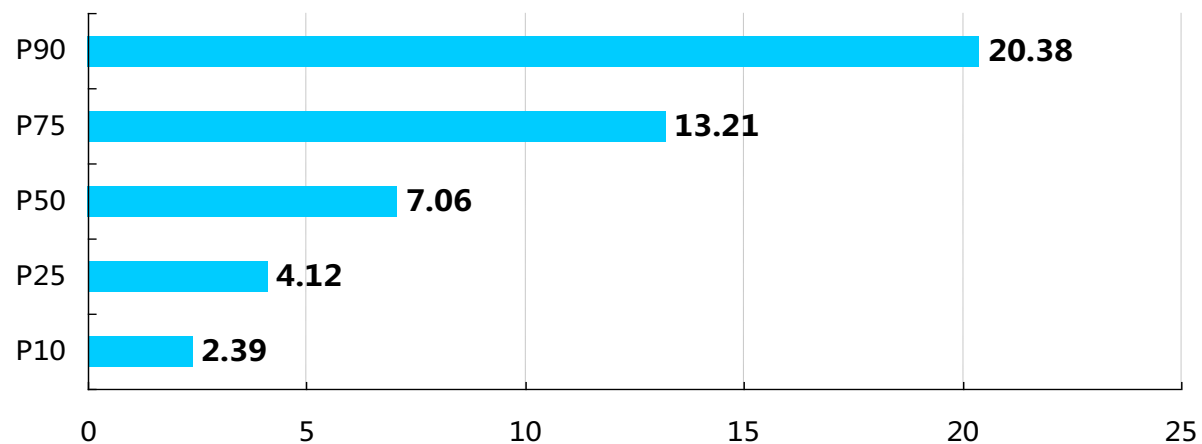
Baseline report



2018 China Industry-wide Productivity data

Productivity (Unit : Man-hour/FP)

P10	P25	P50	P75	P90
2.39	4.12	7.06	13.21	20.38

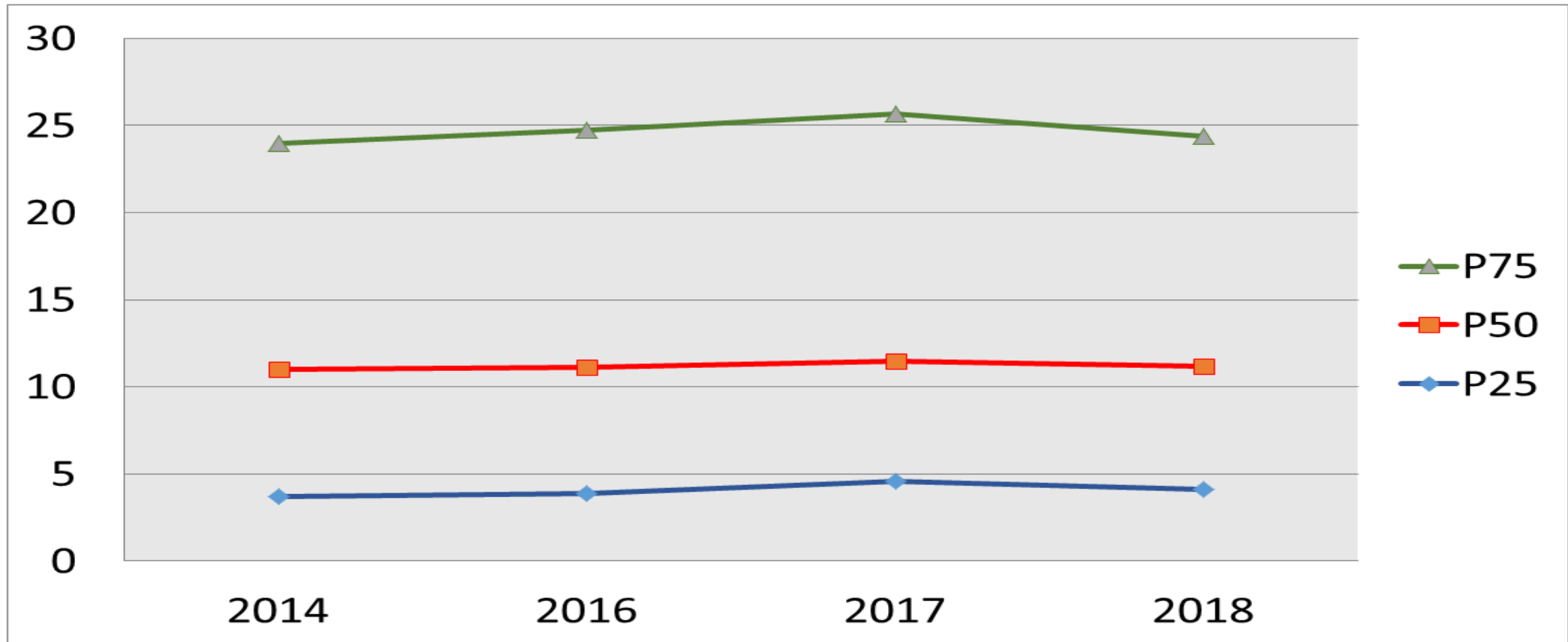


2018 Industry Sector Productivity data

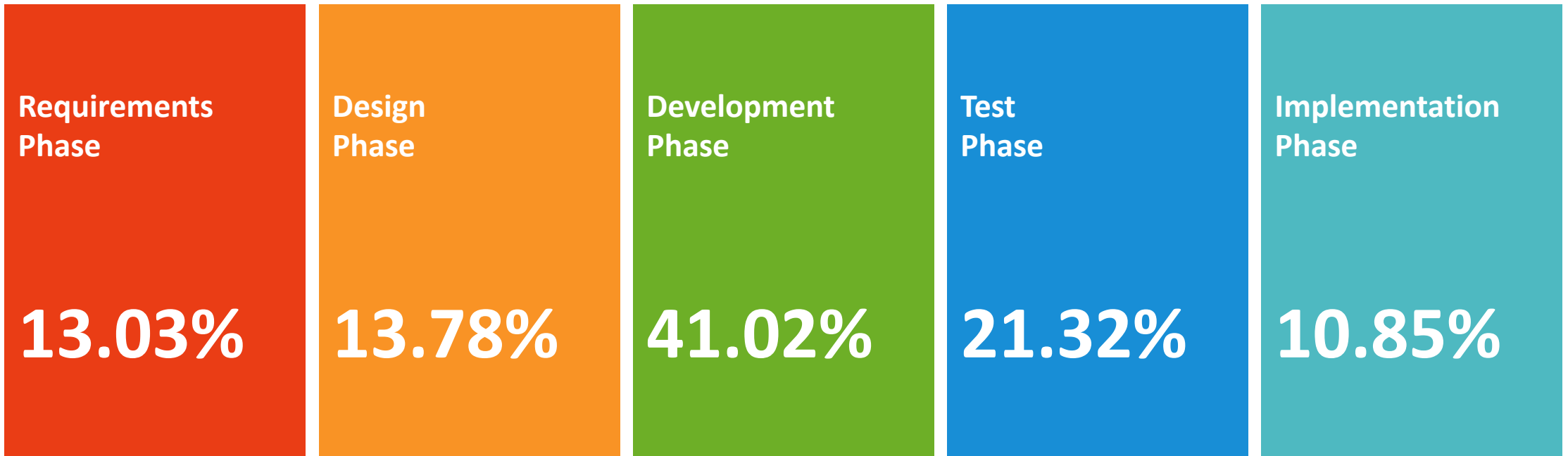
Industry Sector	P10	P25	P50	P75	P90
Financial	4.15	6.90	12.70	19.35	27.75
Telecommunications	3.13	5.31	12.15	20.65	29.20
Government	1.69	3.25	6.58	12.31	15.16
Energy	2.07	4.02	7.32	15.49	28.98
Transportation	2.31	3.96	7.22	20.11	30.23
Manufacture	1.98	3.66	9.25	18.26	25.49



2014-2018 Productivity Benchmark Data Trends



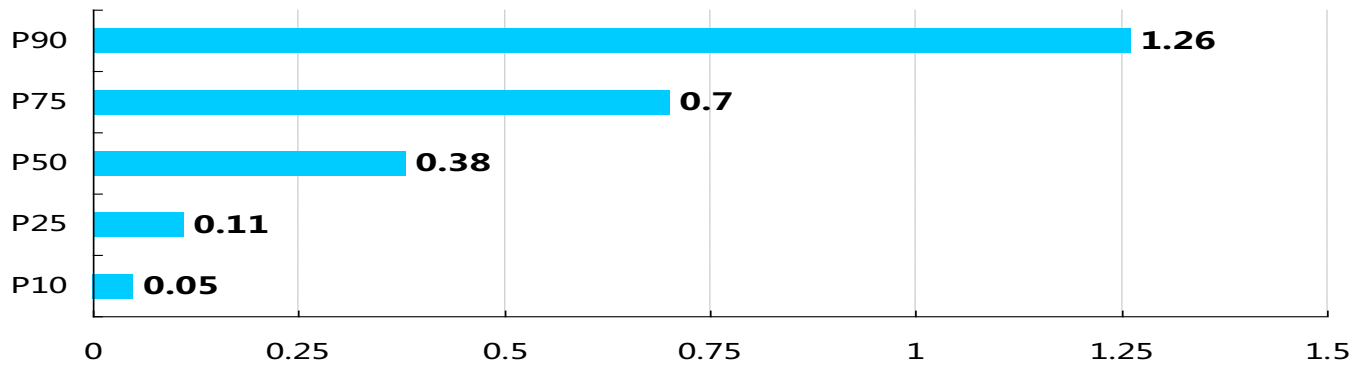
Workload Distribution Ratio



Defect Density

Defect Density (Unit : Defect/FP)

P10	P25	P50	P75	P90
0.05	0.11	0.38	0.70	1.26



Man-month Fee of China Top10 Cities



City	Man-month (10K RMB)	Man-month (USD \$)
Beijing	2.57	3756
Shanghai	2.51	3668
Shenzhen	2.42	3537
Guangzhou	2.35	3434
Dalian	2.68 (overseas outsourcing)	3916
Hangzhou	2.10	3069
Nanjing	2.06	3010
Xiamen	1.98	2893
Tianjin	1.95	2849
Wuhan	1.78	2601



Asociación Mexicana de Métricas de Software



IT CONFIDENCE
CONFERENCE



<http://www.ssmchina.org/>

Thank You !



©CNMES. Todos los derechos reservados.

